



Munitions Directorate

Collaborators Conference

OUTLINE

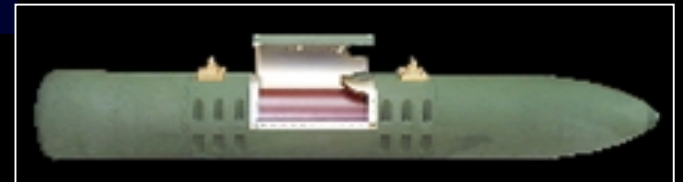
- Who We Are, What We Do
- Resources
- Collaboration Opportunities

AACC/PA 00-038
AACC/PA 00-041

Col. “Dutch” Dutchyshyn, Director

MISSION:

*DEVELOP, INTEGRATE, AND
TRANSITION SCIENCE AND
TECHNOLOGY FOR AIR-LAUNCHED
MUNITIONS FOR DEFEATING GROUND
FIXED, MOBILE/RELOCATABLE, AIR,
AND SPACE TARGETS TO ASSURE THE
PRE-EMINENCE OF U.S. AIR AND
SPACE FORCES.*

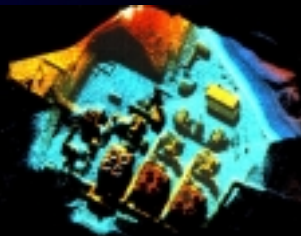




MN Focus Areas



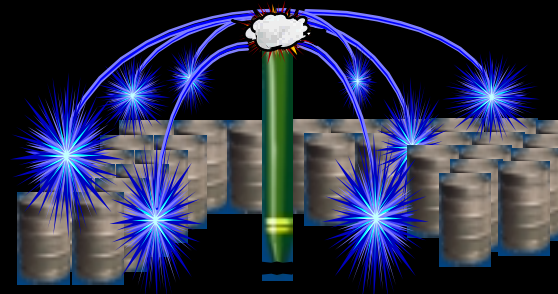
Precision Engagement



Focused Lethality



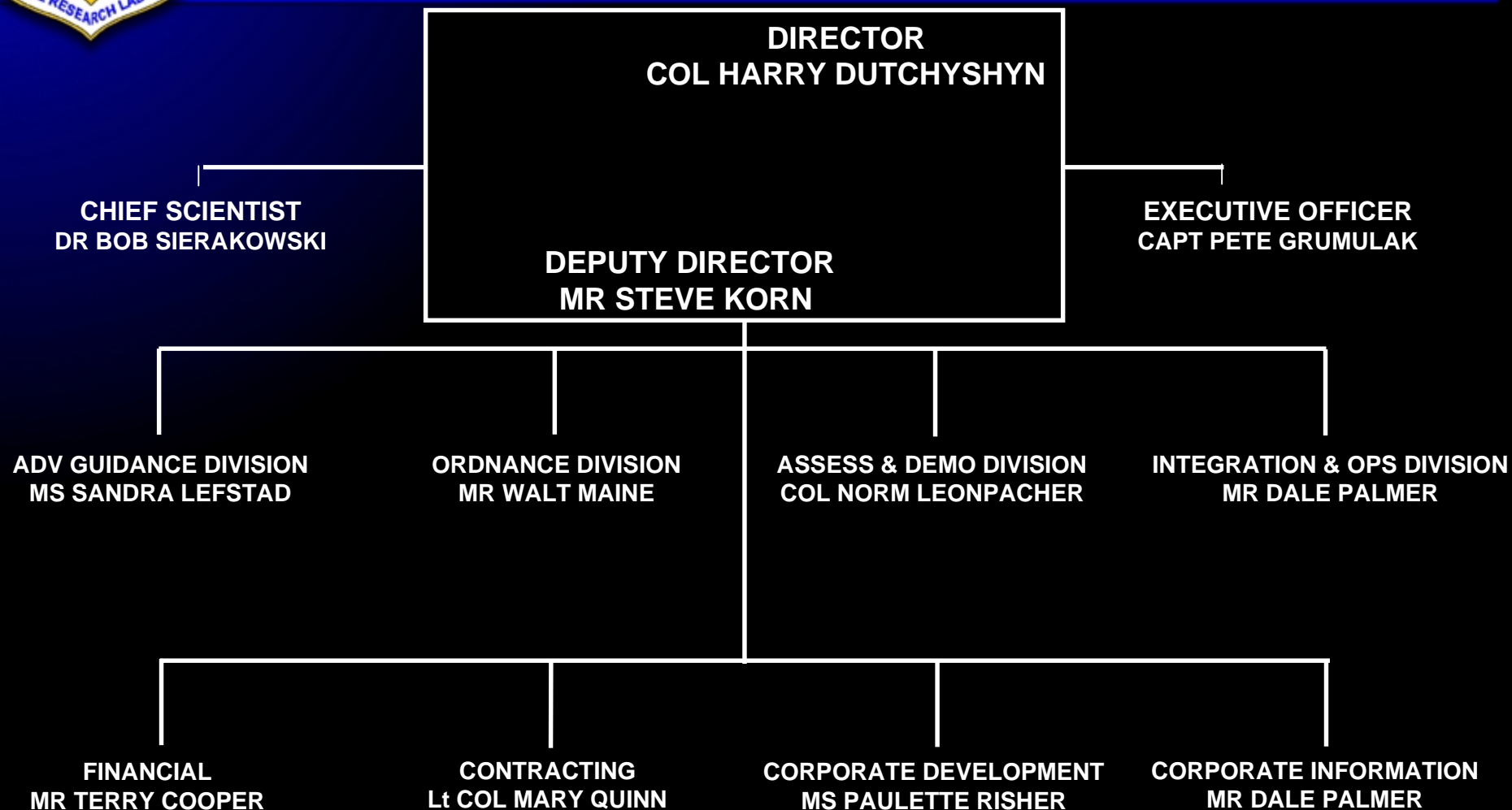
Autonomous Munitions



Alternatives to Blast Frag



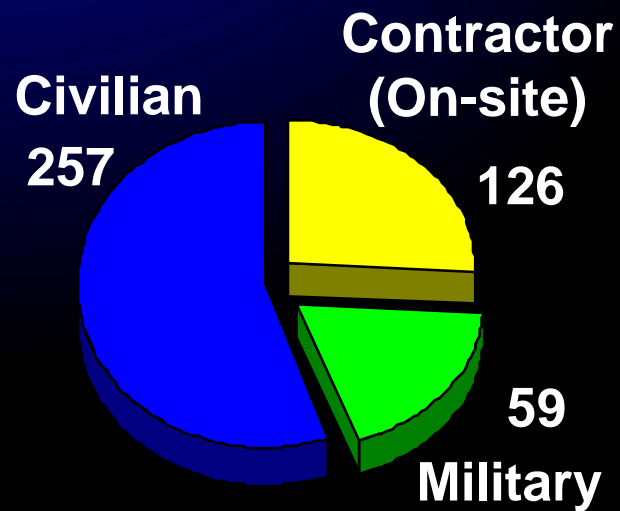
Munitions Directorate





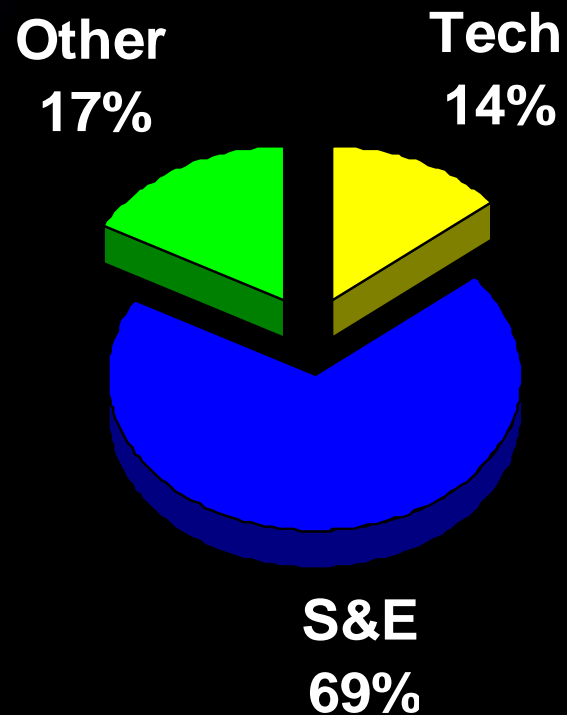
MN Manpower

CIV / MIL / KTR MIX

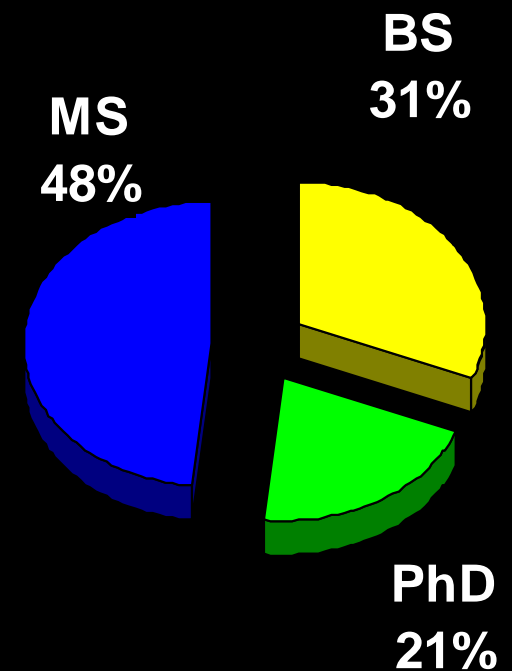


- MN TOTAL (GOV'T) - 316
- MN TOTAL INCLUDING CONTRACTORS - 442

GOV CATEGORY



GOV DEGREES



An Integrated Workforce... Balanced between GOV & KTR Personnel



Integrating Concepts

Realizing the Vision



**SMALL SMART
BOMB**



**ANTIMATERIEL
MUNITION**

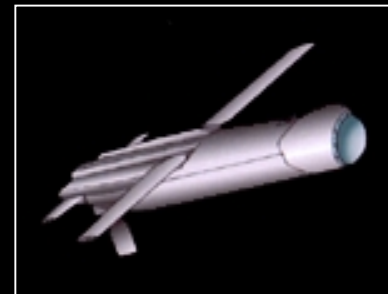


**HARD TARGET
SMART MUNITION**



**AIR
SUPERIORITY
MISSILE**

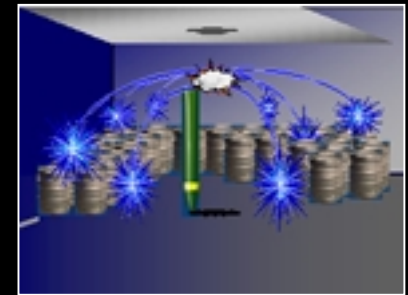
New Visions



**AIR
EXPEDITIONARY
FORCE**



**CLOSE AIR
SUPPORT**



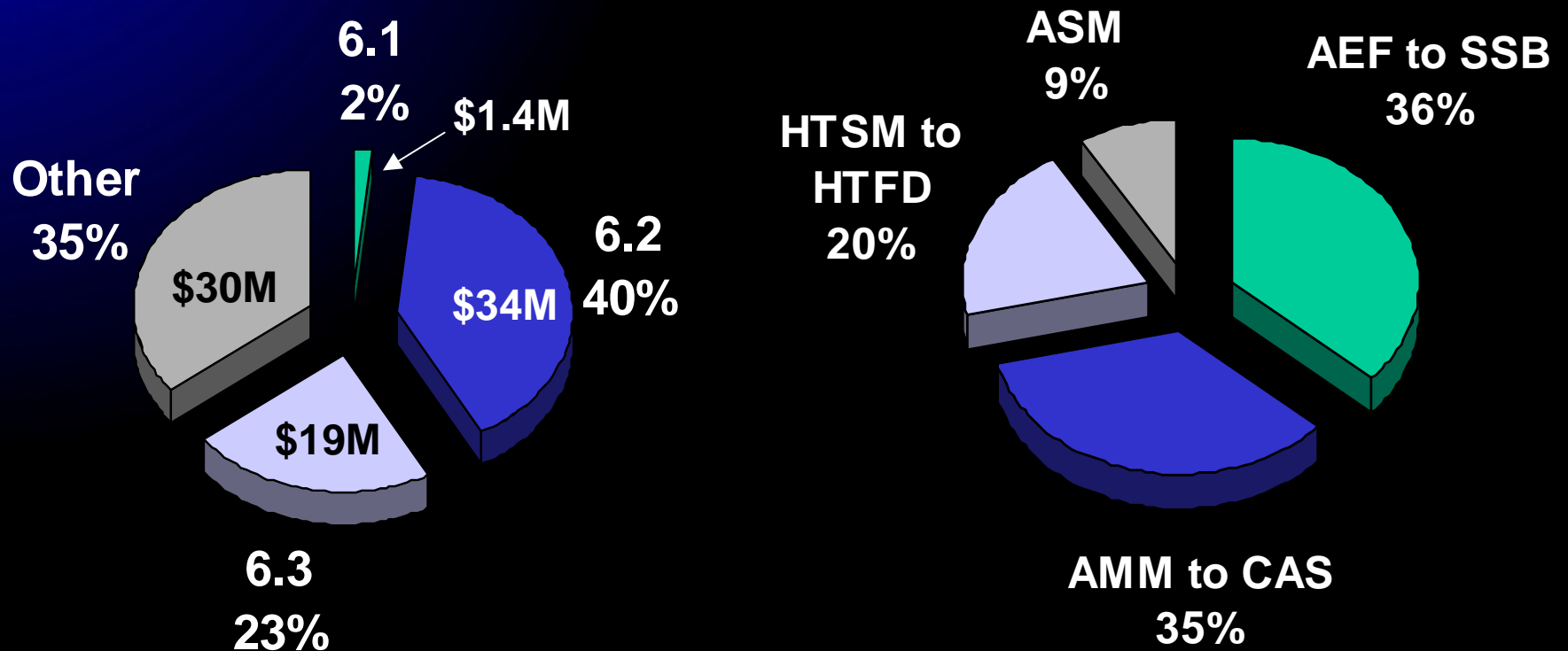
**COUNTER-
PROLIFERATION**



**HARD TARGET
FUNCTIONAL
DEFEAT**



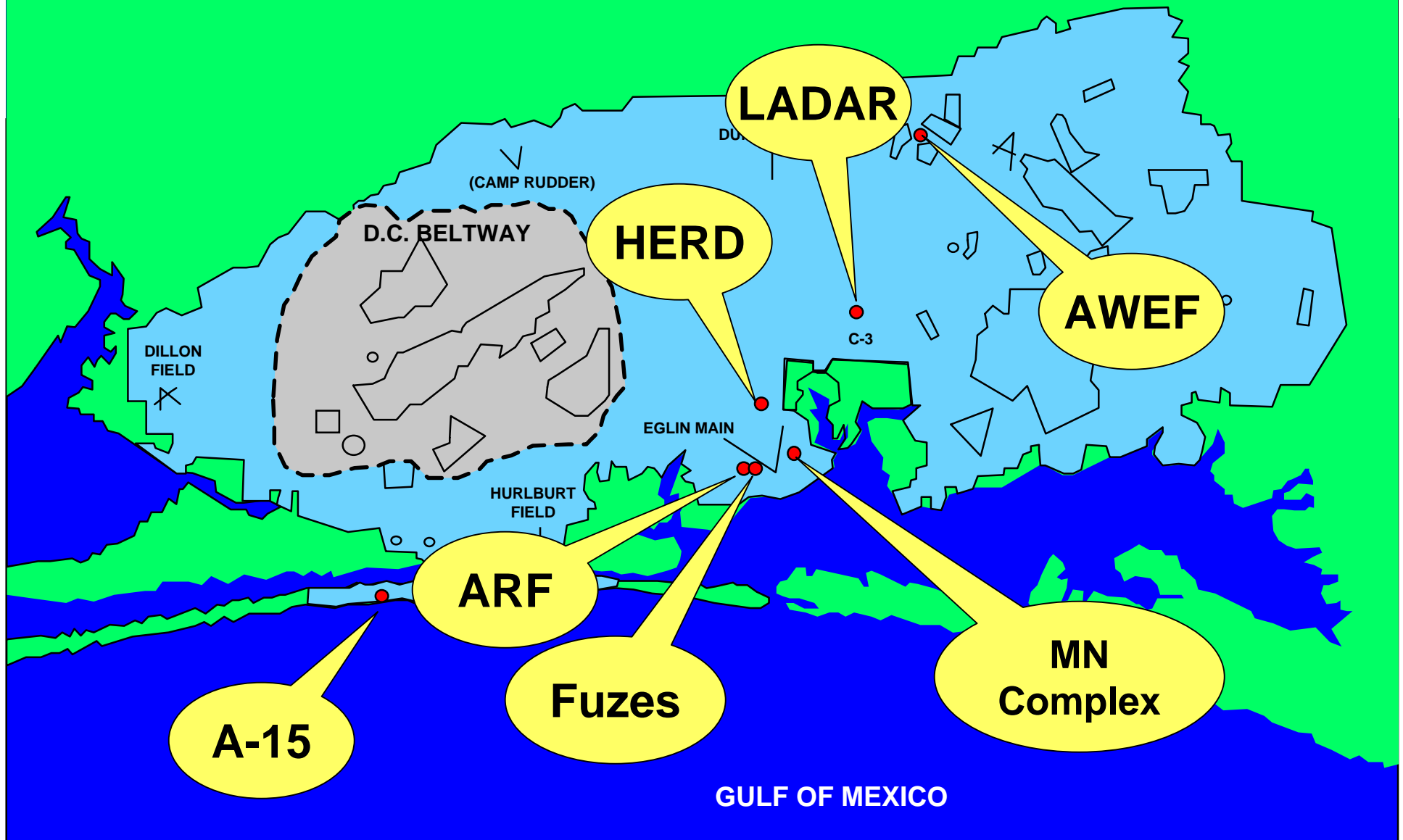
MN FY00 Funding



**Institutional & Customer Funding ...
Targeted to Warfighter Needs**

MN Facilities at Eglin AFB...

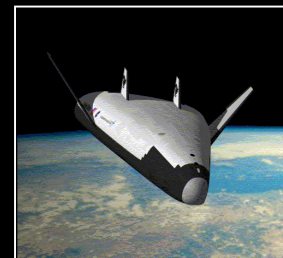
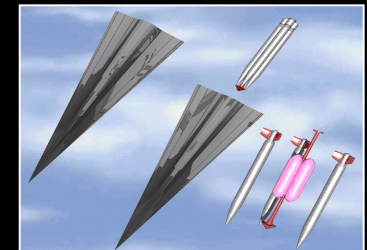
A Synergistic Relationship with AAC





Technology Drivers

- **All Weather Attack**
- **Weapon Borne BDI/BDA**
 - Last mile updates... in-flight retasking
 - Weapons Swarming... cooperative data links
- **Increase Stand-off**
 - High Energy Propulsion...Speed/endurance
 - Payload / Submunition integration & dispensing
- **Weapons From / Thru Space**





Areas of Interest for Collaboration

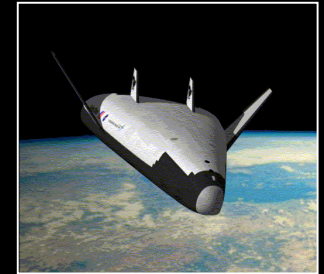
- Weapons and weapons effects modeling
- Target effects modeling
- Advanced energetics increased yield; shock sensitivity
- Explosive reclamation & environmental effects
- Advanced initiation- high speed, low voltage nano-second control of explosive detonators
- Aeroballistics – operation of a free flight ballistic range
- Guidance and control laws
- Weapon communication sensor web
- Munition image processing algorithms
- IR/RF/MMW signal processing for terminal attack
- Neutralization characteristics of bio and chemical agents
- High-strength / toughness steel and heavy metals

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MN Focus on AF Core Competencies

Control the Aerospace Dimension



**Attack with Precision
and Tailored Effects**

Be an Expeditionary Force

